

**PERMIT APPLICATION:** NRS # 04.296

**APPLICANT:** State of Tennessee  
 Department of Transportation  
 Environmental Planning and Permits Division  
 Suite 900, James K. Polk Building  
 505 Deaderick Street  
 Nashville, Tennessee 37243  
 (615)253-2477

**LOCATION:** Old 15<sup>th</sup> Road over Gulf Fork Big Creek  
 Latitude: 35.8621° N  
 Longitude: 83.1061° W  
 Cocke County

**WATERSHED DESCRIPTION:** Gulf Fork Big Creek is located in the Upper French Broad Watershed. Gulf Fork Big Creek flows approximately 20 – 25 ft. in width and 6 – 24 inches in depth. The substrate is cobble, boulder, and sand with a limited canopy consisting of hardwoods. Gulf Fork Big Creek is a Tier II stream that has its origin in the Cherokee National Forest and is a naturally producing trout stream.

**PROJECT DESCRIPTION:** The applicant proposes to improve the approaches and replace the bridge on Old 15<sup>th</sup> Road over Gulf Fork Big Creek. The work would include the relocation of two unnamed tributaries.

**Station 13+90± (Rt.):** Unnamed tributary to Gulf Fork Big Creek. Existing conditions are 65 ft. of open stream. The applicant proposes to relocate 10 ft. of the existing stream. A total of 55 ft. of the existing stream would be filled and mitigated for by payment to the Tennessee Wildlife Resources Foundation for the In-leu Fee Stream Mitigation Program.

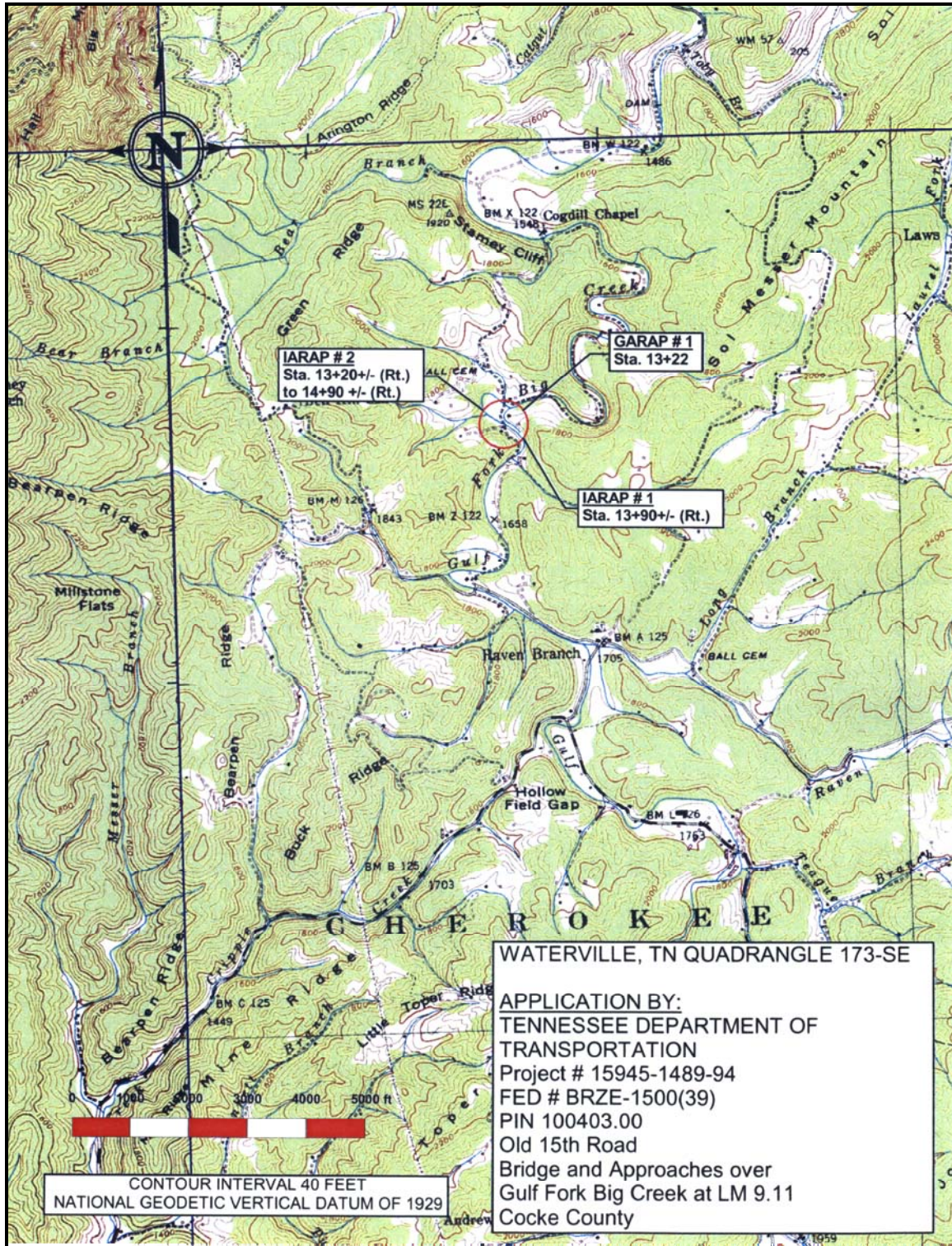
**Station 13+65± (Lt.) to 14+90 (Rt.):** Unnamed tributary to Gulf Fork Big Creek. Existing conditions are 192 ft. of open stream and 8 ft. of 12-inch reinforced concrete pipe. The applicant proposes to replace the pipe with 20 ft. of 18-inch side drain and relocate 192 ft. of stream with a proposed 200 ft open stream channel.

**Station 13+22:** Gulf Fork Big Creek. A 12 ft. x 50 ft. steel I-beam and concrete bridge would be replaced by 65.73 ft. of 3 18 ft. x 10 ft. slab bridges.

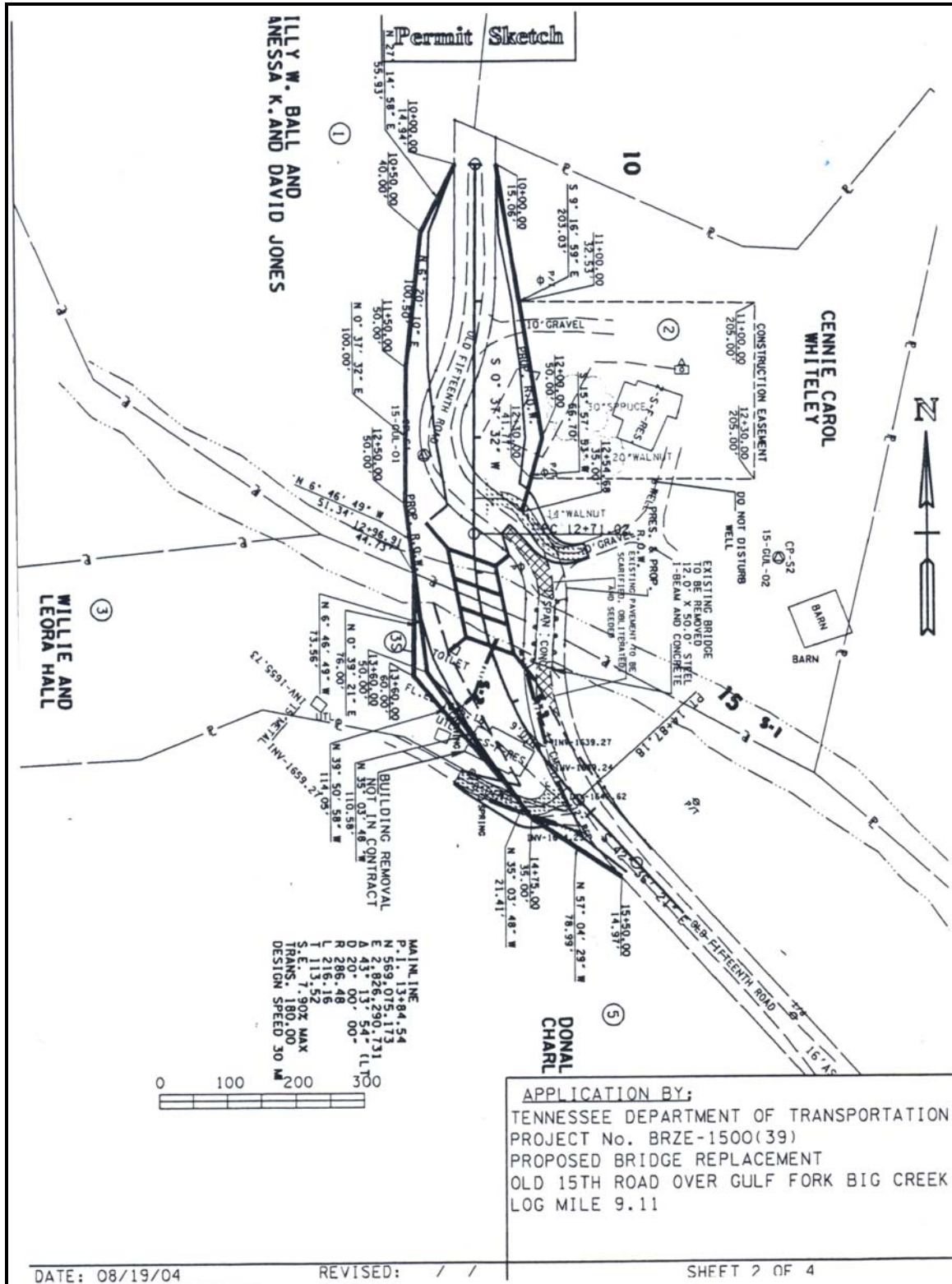
The applicant proposes 210 ft. of on-site replacement in-kind. The additional 55 ft. of class three (III) alterations will be mitigated for by paying \$11,000.00 to the Tennessee Wildlife Resources Foundation for the In-leu Fee Stream Mitigation Program.

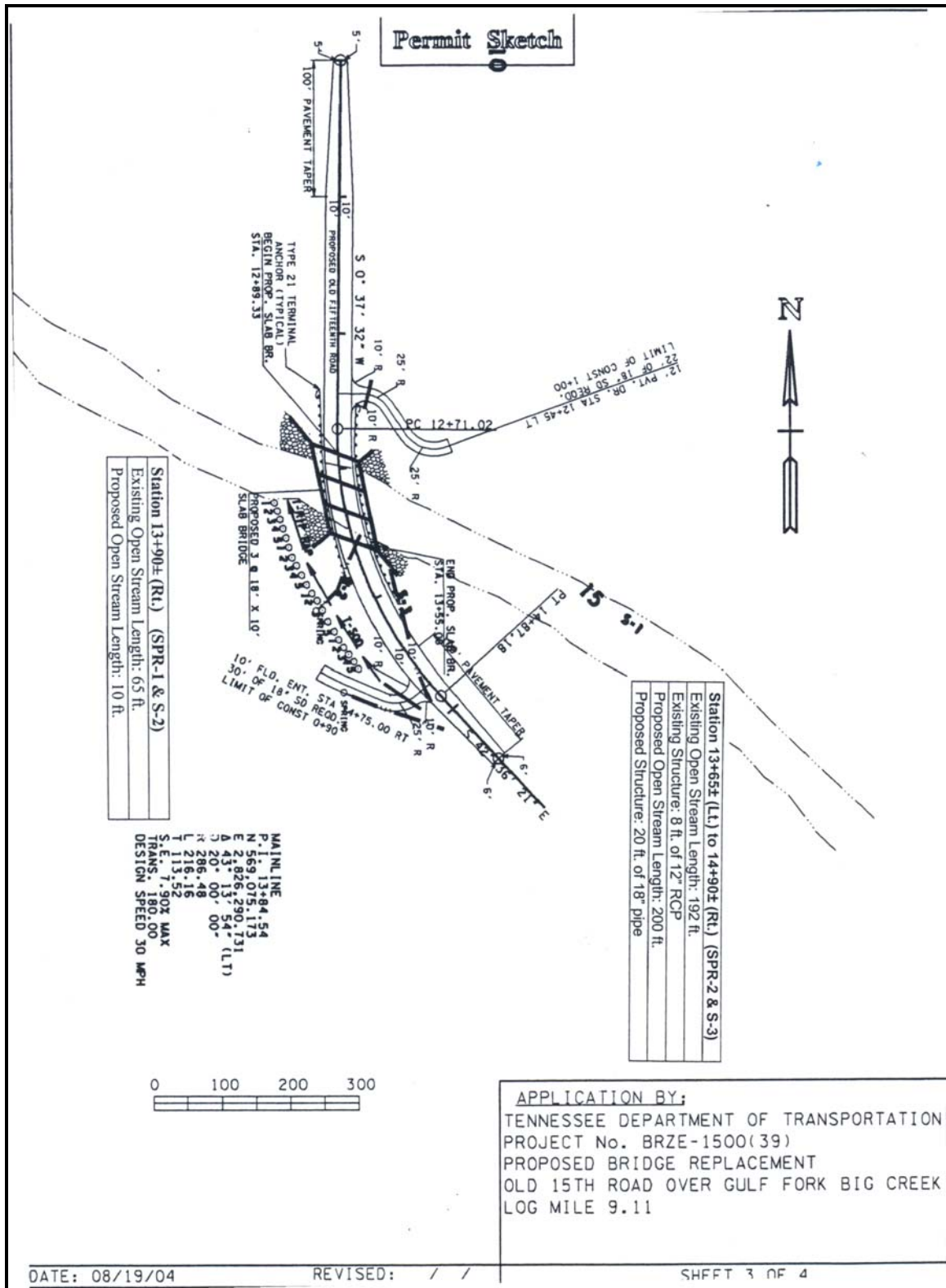
**PERMIT COORDINATOR:** Trent Thomas

**USGS TOPOGRAPHIC QUADRANGLE:** Waterville, TN (173 SE)





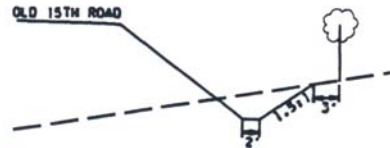




# Permit Sketch

## SPECIAL NOTES:

1. NO SUBSTITUTIONS FOR ANY TREE SPECIES WILL BE ACCEPTED WITHOUT WRITTEN PERMISSION FROM THE ENVIRONMENTAL PLANNING AND PERMITS DIVISION.
2. NO CULTIVARS FOR ANY OF THESE TREE SPECIES WILL BE ACCEPTED.
3. THE PROPOSED CHANNEL CHANGES ARE TO BE ACCOMPLISHED "IN THE DRY". FLOWS FOR EACH STREAM WILL BE SEPERATED FROM THE WORK AREA USING PLASTIC LINED CHANNELS, PIPES, OR OTHER SIMILAR MEANS.
4. THE PROPOSED CHANNELS ARE TO BE CONSTRUCTED LEAVING AN EARTH PLUG AT EACH END. ONCE THE PROPOSED CHANNEL BANKS ARE STABILIZED, THE DOWNSTREAM PLUG IS TO BE REMOVED FOLLOWED BY THE UPSTREAM PLUG. THE DISTURBED AREAS ARE TO BE STABILIZED AS SOON AS POSSIBLE. THE CHANNEL BANKS WILL BE CONSIDERED STABLE ONCE THEY HAVE BEEN PERMANENTLY SEEDED AND MULCHED OR SODDED AS NEEDED.
5. EROSION AND SEDIMENT CONTROL STRUCTURES ARE TO BE INSTALLED PRIOR TO EARTH MOVING ACTIVITIES TO PREVENT ADVERSE IMPACTS TO GULF FORK BIG CREEK AND ITS TRIBUTARIES. EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE MAINTAINED THROUGHOUT THE LENGTH OF THE PROJECT TO INSURE THEY DO NOT BECOME INEFFECTIVE.
6. OPERATION OF MOTORIZED EQUIPMENT INSTREAM IS PROHIBITED IN GULF FORK BIG CREEK AND ITS TRIBUTARIES EXCEPT ON CLEAN SHOT ROCK PADS AS SPECIFIED IN THE PROJECT PERMITS.
7. REMOVAL OF CANOPY ALONG GULF FORK BIG CREEK AND ITS TRIBUTARIES WILL BE LIMITED ONLY TO THAT NECESSARY FOR CONSTRUCTION OF THE PROPOSED PROJECT. UNNECESSARY CANOPY REMOVAL IS PROHIBITED.
8. EQUIPMENT STAGING AREAS ARE TO BE LOCATED A SUFFICIENT DISTANCE FROM GULF FORK BIG CREEK AND ITS TRIBUTARIES SO THAT NO PETROLEUM PRODUCTS ARE ALLOWED TO ENTER THESE STREAMS.



CROSS-SECTION FROM STA. 13+75 TO STA. 14+50



CROSS-SECTION FROM STA. 13+25 TO STA. 13+75  
WITH TYPE 'A-1' RIP RAP LINER

## TREE SPECIES TO BE USED:

1. - TSUGA CANADENSIS
2. - ACER RUBRUM
3. - JUGLANS NIGRA
4. - PLATANUS OCCIDENTALIS
5. - LIRIODENDRON TULIPIFERA

## APPLICATION BY:

TENNESSEE DEPARTMENT OF TRANSPORTATION  
PROJECT No. BRZE-1500(39)  
PROPOSED BRIDGE REPLACEMENT  
OLD 15TH ROAD OVER GULF FORK BIG CREEK  
LOG MILE 9.11